



ALTAIR[®] LOUVRE WINDOWS

for Commercial Buildings

breezway[®]

Mother Teresa College,
Western Australia

Altair Louvres can maximise
natural light and ventilation in
education buildings.



Front Cover Australia Towers,
Sydney, New South Wales.

Altair[®] Louvres

Energy Efficient Window Solution

Altair Louvre Windows are an environmentally sustainable alternative to fixed lite panels for maximising the flow of natural light and fresh breezes into a building.

Altair Louvres are fully WERS rated and can improve indoor airflow while significantly reducing the need for artificial cooling and lighting systems. By placing Altair Louvres on internal walls, fresh air can further ventilate throughout the interior of the building, whilst providing a connection to the outside environment to enhance the occupant's daily experience with the space.



PERFORMANCE

Available with 152mm and 102mm blades in glass, timber and aluminium. Tight sealing provides low air infiltration and ensures superior wind and water performance. Fully tested to comply with AS2047 "Windows in Buildings".



DURABILITY

Made entirely from corrosion resistant aluminium, stainless steel and UV-stabilised industrial strength plastics to ensure long life durability.



SECURITY

For high risk areas, security bars, keylocks or screens can be easily fitted when the Breezway Easyscreen[™] or Innoscreen[®] Window System are used. Fully tested to comply with Australian Standards.



CUSTOMISE

Wide choice of customising options to provide greater design flexibility. Powerlouvre[™] Window is available for automated solutions. The optional Stronghold[®] System can provide extra strength or safety if required.

“Ventilation is an important
element for all building
designs”

breezway[®]



Dalyellup College, Western Australia

Providing comfortable learning and teaching spaces for occupants.



Mary Ellen Hotel, New South Wales

Aluminium blades provide shading and privacy while still maximising ventilation.



Automated Application, Australia

Altair Powerlouvre Windows can be easily controlled by Bluetooth compatible smartphones.



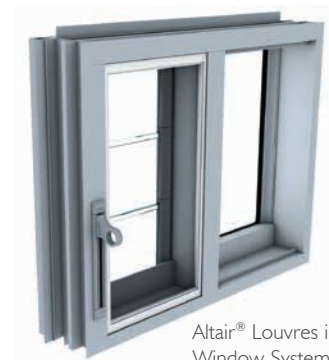
Yishun Hospital, Singapore
Altair Louvres open to provide ventilation to patients in hospital beds.



Altair® Louvre Componentry for Commercial Frames.



Altair® Louvres in an SL2® Window System.



Altair® Louvres in an Innoscreen® Window System.

Component System

SL2® System

Innoscreen® System

| | | | |
|-------------------------------|--|--|--|
| Application | Galleries can be screwed or snapped into most aluminium, timber or uPVC windows frames. | Suitable for narrow frame applications when no screen is required. | Ideal framing option for buildings that require screening but desire that 'louvre look'. |
| Frame Depth | Varies | 52mm | 131mm |
| Frame Height | Up to 3020mm | Up to 3048mm | Up to 3070mm |
| Frame Construction | Aluminium, Timber, UPVC | Aluminium | Aluminium |
| Visible Fixings | Varies | None | None |
| Altair Louvre Bays | Yes | Yes | Yes |
| Fixed Lite Bays | Yes | Yes | Yes |
| Screening | Outside or No Screen | No Integrated Screening | Inside |
| Control Options | <ul style="list-style-type: none"> • Standard Handle • Low Profile Handle • Ring Handle • No Handles (Powerlouvre) | <ul style="list-style-type: none"> • Standard Handle • Low Profile Handle • Ring Handle | <ul style="list-style-type: none"> • Slide Handle • No Handles (Powerlouvre) |
| Security Options | <ul style="list-style-type: none"> • Keylocks • Integrated Solid Bars • Screens | <ul style="list-style-type: none"> • Keylocks | <ul style="list-style-type: none"> • Screens |
| Reveals & Flashing | Available | Available | Available |
| Compatible Sub Framing | Available | None | Available |



Altair® Louvres in an Easyscreen™ Window System.

Easyscreen™ System

Suitable for all building types with external screening available. Supplied fully assembled.

| |
|--|
| 131mm |
| Up to 3061mm |
| Aluminium |
| None |
| Yes |
| Yes |
| Outside |
| <ul style="list-style-type: none"> • Standard Handle • Low Profile Handle • Ring Handle • No Handles (Powerlouvre) |
| <ul style="list-style-type: none"> • Keylocks • Integrated Solid Bars • Screens |
| Available |
| Available |



Altair® Dualair™ Secondary Glazed Louvre System.

Dualair™ System

High performance secondary glazed louvre system for commercial buildings.

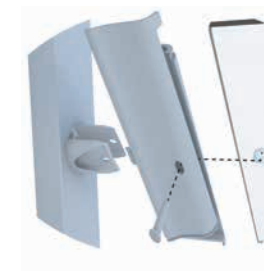
| |
|---|
| 150mm |
| Up to 2663mm |
| Aluminium** |
| None |
| Yes |
| Yes |
| No Integrated Screening |
| OUTSIDE <ul style="list-style-type: none"> • Powerlouvre INSIDE <ul style="list-style-type: none"> • Powerlouvre • Manual Control* |
| * Standard/Low Profile or Ring Handles |
| • Keylocks |
| Not Available (Installation by sub framing only) |
| Available |

** Alspec McArthur Evo 150mm Centre Pocket or Hunter Evo 150mm Acoustic.

Featured Products



Altair® Powerlouvre™ Window System.



Altair® Louvre Windows with the Stronghold® System.

Powerlouvre™ Window

Automated control for out of reach applications or integration into Building Management Systems.

| |
|--|
| 131mm |
| Up to 2611mm |
| n/a |
| None |
| Yes |
| n/a |
| n/a |
| <ul style="list-style-type: none"> • Bluetooth® Enabled Aptivate® Control Unit • Building Management Systems • Normally open, non-latching switches |
| <ul style="list-style-type: none"> • Integrated Solid Bars • Screens |
| n/a |
| n/a |

Stronghold® System

Maximise ventilation in multi-level residential or commercial buildings.

| |
|--|
| 131mm |
| Up to 3070mm |
| n/a |
| None |
| Yes |
| n/a |
| n/a |
| <ul style="list-style-type: none"> • Standard Handle • Low Profile Handle • Ring Handle |
| <ul style="list-style-type: none"> • Integrated Solid Bars • Screens |
| n/a |
| n/a |

Full specifications can be found at www.breezway.com.au/technical



Multi-Purpose Hall

Altair Louvre Windows are perfect for keeping multi-purpose halls freshly ventilated for players and spectators.



**Breezway Design Assist,
Australia**

Our Sales Consultants are
available to assist with all your
louvre window enquiries.

Altair[®] Louvre

Technical Data

High Durability Finishes

The aluminium components of Altair Louvre Windows are available in two different surface finishes: anodised or standard powder coating.

Powder coatings are polyester coatings from leading powder suppliers applied to a thickness of 50-80 μm and anodised finishes are to a thickness of 25 μm .

Breezway has an onsite powder-coating line that is certified by Dulux to apply Duralloy and Duratec powders and by Akzo Nobel to apply Interpon D1000 and Interpon D2010 powders. Seven and ten year warranties are offered on these products.

Over time, weathering of powder coated surfaces should be expected. Selecting the right powder for the atmospheric conditions of the site and correct maintenance will be critical to the ongoing appearance of the finish.

Fully Energy Rated

Energy ratings for Breezway Window Systems with a wide variety of glazing options are publicly available from the WERS website (www.wers.net). Breezway Louvre Windows with glass blades can achieve U-values as low as 2.4 and SHGC from 0.10 up to 0.64.

A research report commissioned by Breezway shows that Easyscreen Louvre Windows with Western Red Cedar Blades have a U-value of 4.4 and a SHGC of 0.1. (While these results are suitable for comparison with ratings in the WERS database, they are not authorised WERS ratings).

Acoustic Insulation Ratings

Testing shows that Altair Louvre Windows achieve Rw ratings of 27-28 when toughened glass blades are installed. This is comparable to the acoustic properties of some double glazed windows.

When using the Altair Dualair Secondary Glazed Louvre System, a Rw rating of 38 can be achieved with toughened glass blades.



breezway[®]

Altair® Louvre Window Standard Heights

This chart indicates standard window heights corresponding to the number of full blades used in standard Breezway Louvre Window frames. For window heights differing from our standard dimensions, a fixed blade can be added to accommodate the difference. However please note the Dualair System is available in standard heights only and some off-standard heights are unavailable with the Powerlouvre System.

Galleries/Strip Hardware can be fitted to a number of different window fabricator's frames, please contact your fabricator for their standard window heights.

Sub Framing is available for the Easyscreen, Innoscreen and Dualair Window Systems. For more information please contact Breezway.

 For Powerlouvre Standard heights

* For gallery height only, subtract 10mm from these standard heights.

***Altair Powerlouvre Weatherstrip set must be used.

1. **Head:** Alspec® McArthur Evo™

Sill / Transom: Alspec McArthur Evo

2. **Head:** Alspec McArthur Evo

Sill / Transom: Alspec Hunter Evo™ Acoustic

| | Easyscreen™ System | | Innoscreen® System | | SL2® System | | Dualair™ System | | Altair® Louvre Galleries | | Powerlouvre™ Galleries | |
|--|---|--------------|--|--------------|------------------|--------------|------------------|---------------|--------------------------|--------------|--------------------------|--------------|
| | Standard heights (Screens fitted to outside of frame) | | Standard heights (Screens fitted to inside of frame) | | Standard heights | | Standard heights | | including Weatherstrip* | | including Weatherstrip** | |
| All dimensions are in millimeters (mm) | | | | | | | | | | | | |
| No. of Blades | Height 152mm | Height 102mm | Height 152mm | Height 102mm | Height 152mm | Height 102mm | Height 152mm¹ | Height 152mm² | Height 152mm | Height 102mm | Height 152mm | Height 102mm |
| 2 | 371 | - | 380 | - | 358 | - | 418 | 423 | 330 | - | 360 | - |
| 3 | 511 | 361 | 520 | 370 | 498 | 348 | 558 | 563 | 470 | 320 | 500 | 350 |
| 4 | 651 | 451 | 660 | 460 | 638 | 438 | 698 | 703 | 610 | 410 | 640 | 440 |
| 5 | 791 | 541 | 800 | 550 | 778 | 528 | 838 | 843 | 750 | 500 | 780 | 530 |
| 6 | 931 | 631 | 940 | 640 | 918 | 618 | 978 | 983 | 890 | 590 | 920 | 620 |
| 7 | 1071 | 721 | 1080 | 730 | 1058 | 708 | 1118 | 1123 | 1030 | 680 | 1060 | 710 |
| 8 | 1211 | 811 | 1220 | 820 | 1198 | 798 | 1258 | 1263 | 1170 | 770 | 1200 | 800 |
| 9 | 1351 | 901 | 1360 | 910 | 1338 | 888 | 1398 | 1403 | 1310 | 860 | 1340 | 890 |
| 10 | 1491 | 991 | 1500 | 1000 | 1478 | 978 | 1538 | 1543 | 1450 | 950 | 1480 | 980 |
| 11 | 1631 | 1081 | 1640 | 1090 | 1618 | 1068 | 1678 | 1683 | 1590 | 1040 | 1620 | 1070 |
| 12 | 1771 | 1171 | 1780 | 1180 | 1758 | 1158 | 1818 | 1823 | 1730 | 1130 | 1760 | 1160 |
| 13 | 1911 | 1261 | 1920 | 1270 | 1898 | 1248 | 1958 | 1963 | 1870 | 1220 | 1900 | 1250 |
| 14 | 2051 | 1351 | 2060 | 1360 | 2038 | 1338 | 2098 | 2103 | 2010 | 1310 | 2040 | 1340 |
| 15 | 2191 | 1441 | 2200 | 1450 | 2178 | 1428 | 2238 | 2243 | 2150 | 1400 | 2180 | 1430 |
| 16 | 2331 | 1531 | 2340 | 1540 | 2318 | 1518 | 2378 | 2383 | 2290 | 1490 | 2320 | 1520 |
| 17 | 2471 | 1621 | 2480 | 1630 | 2458 | 1608 | 2518 | 2523 | 2430 | 1580 | 2460 | 1610 |
| 18 | 2611 | 1711 | 2620 | 1720 | 2598 | 1698 | 2658 | 2663 | 2570 | 1670 | 2600 | 1700 |
| 19 | 2751 | 1801 | 2760 | 1810 | 2738 | 1788 | - | - | 2710 | 1760 | - | - |
| 20 | 2891 | 1891 | 2900 | 1900 | 2878 | 1878 | - | - | 2850 | 1850 | - | - |
| 21 | 3031 | 1981 | 3040 | 1990 | 3018 | 1968 | - | - | 2990 | 1940 | - | - |
| 22 | - | 2071 | - | 2080 | - | 2058 | - | - | - | 2030 | - | - |
| 23 | - | 2161 | - | 2170 | - | 2148 | - | - | - | 2120 | - | - |
| 24 | - | 2251 | - | 2260 | - | 2238 | - | - | - | 2210 | - | - |
| 25 | - | 2341 | - | 2350 | - | 2328 | - | - | - | 2300 | - | - |
| 26 | - | 2431 | - | 2440 | - | 2418 | - | - | - | 2390 | - | - |
| 27 | - | 2521 | - | 2530 | - | 2508 | - | - | - | 2480 | - | - |
| 28 | - | 2611 | - | 2620 | - | 2598 | - | - | - | 2570 | - | - |
| 29 | - | 2701 | - | 2710 | - | 2688 | - | - | - | 2660 | - | - |
| 30 | - | 2791 | - | 2800 | - | 2778 | - | - | - | 2750 | - | - |
| 31 | - | 2881 | - | 2890 | - | 2868 | - | - | - | 2840 | - | - |
| 32 | - | 2971 | - | 2980 | - | 2958 | - | - | - | 2930 | - | - |
| 33 | - | 3061 | - | 3070 | - | 3048 | - | - | - | 3020 | - | - |



Your Breezway Louvre Preferred Dealer.

bretts trade
let's talk window & door
solutions

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breezway[®]

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